



1998 Toxics Release Inventory

WEST VIRGINIA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	19,714,585	75,730,448	95,445,033
Air Emissions	12,404,749	63,723,002	76,127,751
Surface Water Discharges	7,266,259	370,787	7,637,046
Underground Injection Class I Wells	20	18	38
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	10,036	0	10,036
Other On-site Land Releases	33,521	11,636,641	11,670,162
Off-site Releases (Transfers Off-site to Disposal)*	6,436,250	1,959,041	8,395,291
Total On- and Off-site Releases	26,150,835	77,689,489	103,840,324
Recycled On-site	43,338,962	0	43,338,962
Recycled Off-site	6,081,695	527,975	6,609,670
Energy Recovery On-site	44,353,486	0	44,353,486
Energy Recovery Off-site	9,802,836	3,417	9,806,253
Treated On-site	110,440,195	6,639,644	117,079,839
Treated Off-site**	7,055,196	229	7,055,425
Quantity Released On- and Off-site***	26,112,905	77,658,246	103,771,151
Total Production-related Waste Managed	247,185,275	84,829,511	332,014,786
Total Non-production-related Waste Managed	80,476	42	80,518

Transfers Off-site for Further Waste Management/Disposal

Recycling	6,077,282	527,975	6,605,257
Energy Recovery	9,899,994	7	9,900,001
Treatment	2,557,476	2,629	2,560,105
Publicly Owned Treatment Works (POTWs)	3,507,416	3	3,507,419
Metals and Metal Compounds*	4,405	3	4,408
Non-metal TRI Chemicals**	3,503,011	0	3,503,011
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	6,466,495	1,959,038	8,425,533
Total Transfers Off-site for Further Waste Management/Disposal	28,508,663	2,489,652	30,998,315

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

**** Transfers reported without a valid waste management code.

For More Information . . .

State Contact:

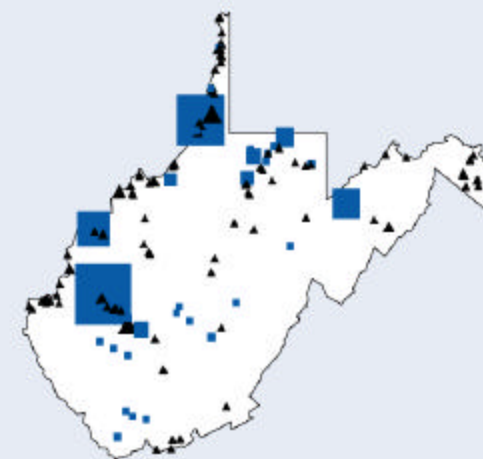
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To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531
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■ New industry ▲ Original industry

The largest marker in the state map represents the largest facility for on-site releases in the state of West Virginia. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	1,811,156
Square Miles	24,087
Total Facilities	182
Total Forms	924
Form As	58

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	28	9	21
Pounds	26,150,835	77,689,489	103,840,324
National Rank for Total On-site Releases**			
Rank	32	10	21
Pounds	19,714,585	75,730,448	95,445,033
National Rank for Total Releases within State***			
Rank	29	9	21
Pounds	24,938,389	78,215,147	103,153,536
National Rank for Production-related Waste Managed			
Rank	28	18	28
Pounds	247,185,275	84,829,511	332,014,786

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



1998 Toxics Release Inventory

WEST VIRGINIA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Nitrate compounds	0	6,846,887	0	26	0	6,846,913	3,160	0	0
—	Manganese compounds	13,655	57,639	0	71	3,666,805	3,738,170	76,115	3,597,603	69,202
7647-01-0	Hydrochloric acid	1,325,767	250	0	0	0	1,326,017	0	0	0
67-56-1	Methanol	994,029	74,486	0	0	1,257	1,069,772	0	0	1,257
108-88-3	Toluene	789,791	3,409	0	2,764	210,372	1,006,336	0	320	210,052
—	Chromium compounds	5,615	15,818	0	26,621	888,757	936,811	4,820	296,221	592,536
7664-41-7	Ammonia	760,245	118,050	0	250	46,498	925,043	315	44,842	1,656
—	Glycol ethers	905,544	11,423	0	0	6,775	923,742	0	0	6,775
78-93-3	Methyl ethyl ketone	856,238	87	0	250	0	856,575	0	0	0
75-15-0	Carbon disulfide	855,257	389	0	0	0	855,646	0	0	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	51,394,904	0	0	0	0	51,394,904	0	0	0
7664-93-9	Sulfuric acid	6,996,220	0	0	0	0	6,996,220	0	0	0
—	Barium compounds	21,304	26,845	0	5,058,290	848,468	5,954,907	9,810	847,488	980
7664-39-3	Hydrogen fluoride	3,780,724	0	0	0	0	3,780,724	0	0	0
—	Zinc compounds	860,953	15,300	11	1,110,222	183,100	2,169,586	0	183,100	0
—	Manganese compounds	47,163	14,945	0	1,677,786	186,000	1,925,894	0	186,000	0
—	Copper compounds	7,014	11,842	7	1,036,681	157,200	1,212,744	0	157,200	0
—	Chromium compounds	51,531	915	0	811,063	153,087	1,016,596	493	152,938	149
—	Nickel compounds	33,816	12,033	0	617,669	132,400	795,918	0	132,400	0
7664-41-7	Ammonia	422,998	281,714	0	0	0	704,712	0	0	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



1998 Toxics Release Inventory

WEST VIRGINIA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Du Pont Belle Plant, Belle, Kanawha	265,354	2,915,000	0	0	0	0	3,180,354	0	100
Bayer Corp., New Martinsville, Marshall	309,549	2,861,762	0	0	0	212	3,171,523	32,699	17,489
Du Pont Washington Works, Washington, Wood	990,001	489,844	0	0	0	38	1,479,883	674,673	29,393
Columbian Chemicals Co., Proctor, Marshall	1,090,000	0	0	0	0	0	1,090,000	0	0
U.S. Can Co., Plant #20 Weirton, Weirton, Brooke	1,071,454	0	0	0	0	0	1,071,454	0	0
Cytec Inds. Inc., Willow Island, Pleasants	411,023	479,831	0	0	0	0	890,854	0	205,000
American Woodmark Corp., Moorefield, Hardy	766,080	0	0	0	0	0	766,080	0	0
Shell Chemical Co., Apple Grove, Mason	665,014	42,529	0	0	0	0	707,543	0	0
GE Co., Washington, Wood	490,834	98,857	0	0	0	5,030	594,721	0	0
Witco Corp., Friendly, Tyler	537,645	13,998	0	0	2,514	0	554,157	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
American Electric Power, John E. Amos Plant, Winfield, Putnam	16,709,646	7,865	0	0	0	791,455	17,508,966	1,489,498	0
American Electric Power, Mitchell Plant, Moundsville, Marshall	13,075,320	13,766	0	0	0	1,405,249	14,494,335	5,809	0
American Electric Power, Mountaineer Plant, New Haven, Mason	8,052,903	4,454	0	0	0	1,162,478	9,219,835	5	1,055
Mt. Storm Power Station, Mount Storm, Grant	5,732,651	4,106	0	0	0	1,774,000	7,510,757	0	0
American Electric Power, Philip Sporn Plant, New Haven, Mason	5,071,756	1,945	0	0	0	1,057,865	6,131,566	0	87
American Electric Power, Kammer Plant, Moundsville, Marshall	3,726,119	43,309	0	0	0	333,570	4,102,998	2,126	0
Fort Martin Power Station, Moundsville, Monongalia	3,685,621	1,505	0	0	0	358,450	4,045,576	0	0
American Electric Power, Kanawha River Plant, Glasgow, Kanawha	2,981,636	814	0	0	0	30	2,982,480	256,368	0
American Bituminous Power Partners, Grant Town, Marion	1,338,797	80	18	0	0	1,506,400	2,845,295	86,000	0
Harrison Power Station, Haywood, Harrison	264,375	2,800	0	0	0	2,032,000	2,299,175	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



1998 Toxics Release Inventory

WEST VIRGINIA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Weirton Steel Corp., Weirton, Hancock	50,463	0	0	0	236,309	201,605	4,090,978	4,579,355	9,000
Bayer Corp., New Martinsville, Marshall	0	19,967	1,094,388	978,944	4,502,157	12,704	3,222,913	9,831,073	258
Du Pont Belle Plant, Belle, Kanawha	960,000	0	253,610	800,180	4,930,600	88,922	3,180,354	10,213,666	0
Du Pont Washington Works, Washington, Wood	1,450,476	92,241	0	0	22,755,264	148,867	2,169,972	26,616,820	13,998
Cytec Inds. Inc., Willow Island, Pleasants	21,435,000	0	0	1,201,000	6,156,550	0	1,103,485	29,896,035	0
Columbian Chemicals Co., Proctor, Marshall	0	0	0	0	370,000	0	1,090,000	1,460,000	0
U.S. Can Co., Plant #20 Weirton, Weirton, Brooke	0	282,664	0	43,737	0	0	1,071,434	1,397,835	0
American Woodmark Corp., Moorefield, Hardy	100,737	0	0	120,694	0	0	766,080	987,511	0
Shell Chemical Co., Apple Grove, Mason	0	0	0	0	5,779,238	0	707,543	6,486,781	0
GE Co., Washington, Wood	0	0	0	95,803	1,287,700	1,643	589,438	1,974,584	20

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
American Electric Power, John E. Amos Plant, Winfield, Putnam	0	205,000	0	0	1,400,000	0	18,993,000	20,598,000	0
American Electric Power, Mitchell Plant, Moundsville, Marshall	0	36,200	0	0	850,000	0	14,487,600	15,373,800	0
American Electric Power, Mountaineer Plant, New Haven, Mason	0	38,000	0	0	550,000	0	9,224,300	9,812,300	0
Mt. Storm Power Station, Mount Storm, Grant	0	0	0	0	2,270,000	0	7,511,000	9,781,000	0
American Electric Power, Philip Sporn Plant, New Haven, Mason	0	1,306	0	0	1,200,000	0	6,133,900	7,335,206	0
American Electric Power, Kammer Plant, Moundsville, Marshall	0	23,800	0	0	0	0	4,109,500	4,133,300	0
Fort Martin Power Station, Madsville, Monongalia	0	0	0	0	0	0	4,040,670	4,040,670	0
American Electric Power, Kanawha River Plant, Glasgow, Kanawha	0	20,200	0	0	240,000	0	3,238,000	3,498,200	0
American Bituminous Power Partners, Grant Town, Marion	0	0	0	0	0	0	2,929,700	2,929,700	0
Harrison Power Station, Haywood, Harrison	0	0	0	0	0	0	2,296,000	2,296,000	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.